

Bye-bye Gigabit NAS, hello 2.5GbE NAS

2.9 GHz

Quad-core processor

Intel® Celeron® N5095 4-core burst up to 2.9 GHz processor, fully supports various NAS applications



Dual 2.5 GbE LAN ports

Sufficient 2.5 GbE network bandwidth provides smooth data transmission experience



Integrated Intel® GPU

Support 4K @60Hz output and hardware transcoding



Dual M.2 PCIe SSD slots

Optimize SSD and HDD storage space



4K HDMI port

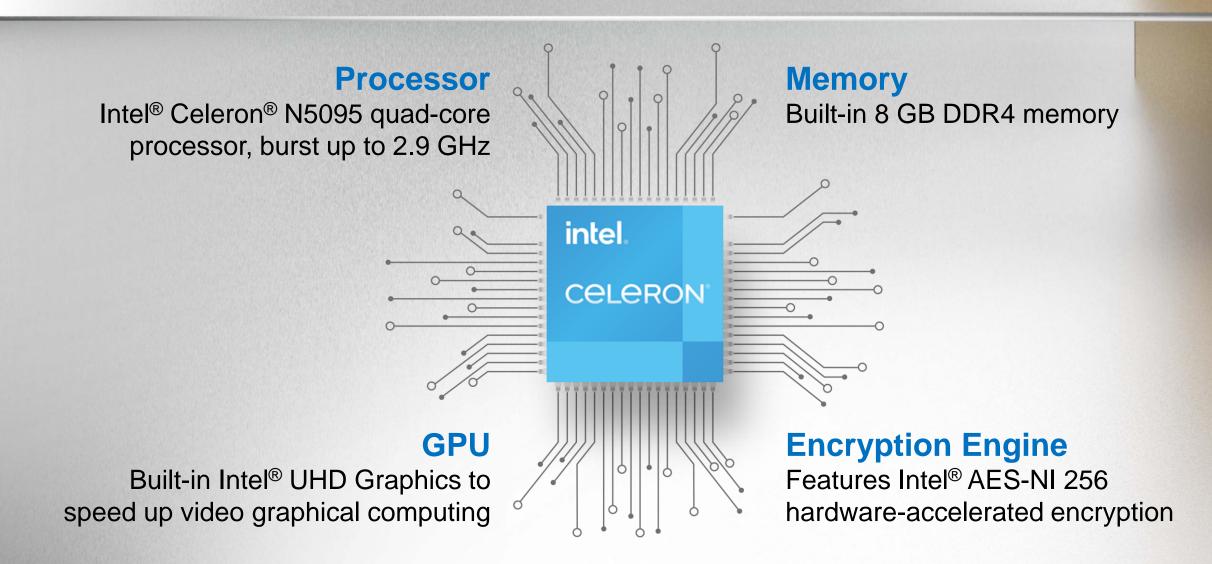
Provides 4K screen output for monitoring or various multimedia applications through HD Station



PCIe Gen3 expansion slots

Support various expansion cards, easily expand the dual-port 10G network

New-generation quad-core processor for optimized performance



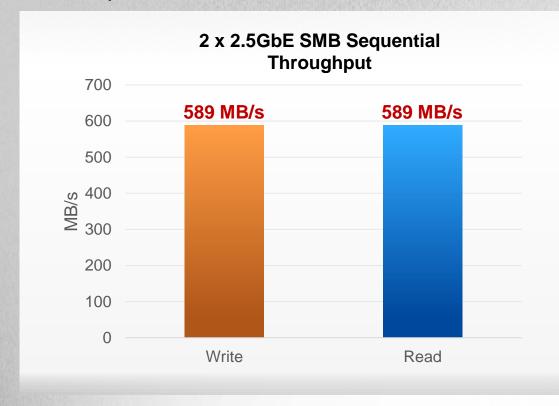
2.5GbE-Ready without any additional NIC



*Dual 2.5 GbE ports

Provide up to 5Gbps data transfer capability through Port Trunking network aggregation.

*Also compatible with 1GbE & 100MbE



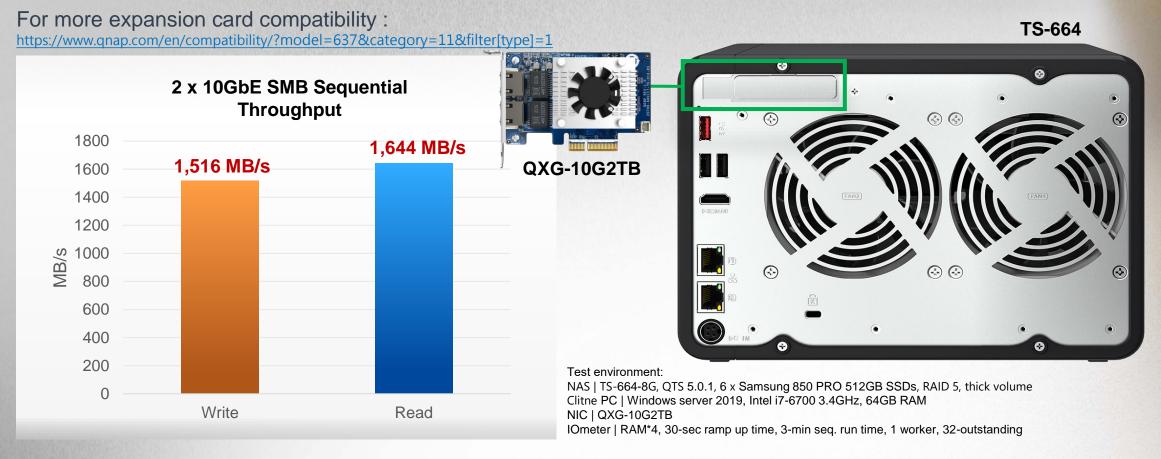


Test environment:

NAS | TS-664-8G, QTS 5.0.1, 6 x Samsung 850 PRO 512GB SSDs, RAID 5, thick volume Client PC | Windows server 2019, Intel i7-6700 3.4GHz, 64GB RAM IOmeter | RAM*4, 30-sec ramp up time, 3-min seg. run time, 1 worker, 32-outstanding

Upgrade to dual-port 10GbE with a PCle network card

Futureproof your network connection by installing a PCIe dual-port 10GbE network card that delivers up to 1,644 MB/s transfer speed



Optional Support USB / SATA JBOD & RAID Storage Expansion Unit, achieve up to 300TB storage space



Maximum of JBOD / RAID expansion enclosures				
TR-002	2			
TR-004	2			
TR-004U	2			
TL-D800C	2			
TL-R1200C-RP	2			
TL-D400S	1			
TL-D800S	1			
TL-D1600S	1			
TL-R400S	1			
TL-1200S-RP	1			









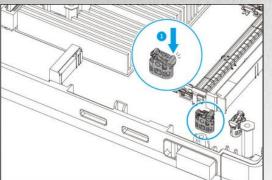


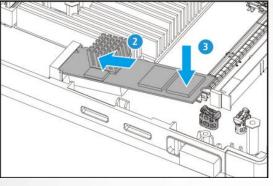
TL-D1600S TL-R400S

TL-R1200S-RP

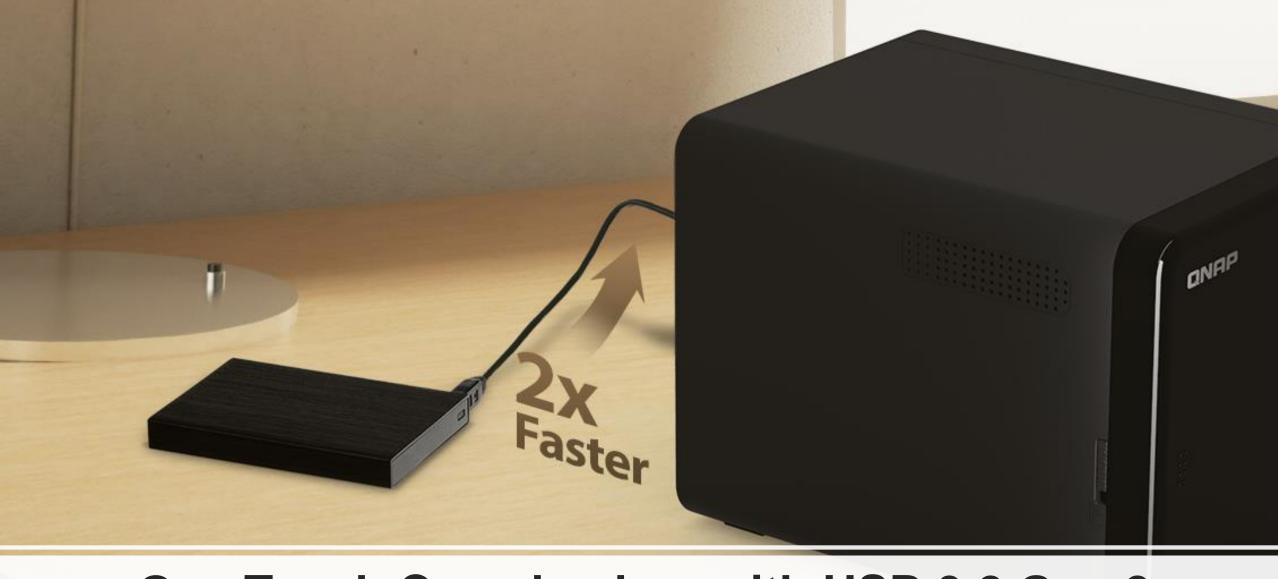
Offer M.2 PCIe Gen3 slot for SSD tiering/caching or edge acceleration







- 3-step installation, supports M.2 2280 PCle Gen3 x1
- M.2 NVMe PCIe SSD
- 2. Coral Edge TPU Al accelerator
- Benefits of using M.2 NVMe PCle SSDs?
- 1. SSD cache: Improved performance at a lower cost
- 2. Qtier: Automatically move hot and cold data between SSD and HDD tiers, achieving both high performance and large capacity



One Touch Copy backup with USB 3.2 Gen 2

Front view of TS-x64



Rear view of TS-x64



PCIe Gen3 expansion slots support various 5GbE / 10GbE network card and interface expansion card

QXG-5G1T-111C 1 x 5G/2.5G/1G/100M



QXG-5G2T-111C 2 x 5G/2.5G/1G/100M



QXG-10G1T1x 10G/5G/2.5G/1G/100M



QXG-10G2TB 2 x 10G/5G/2.5G/1G/100M

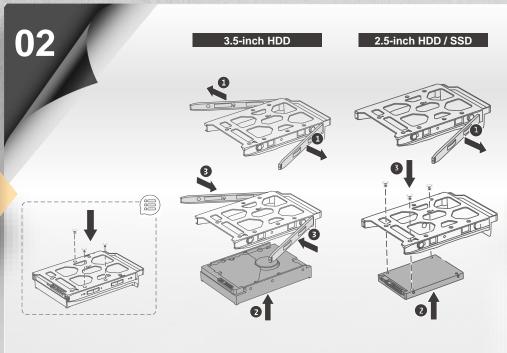


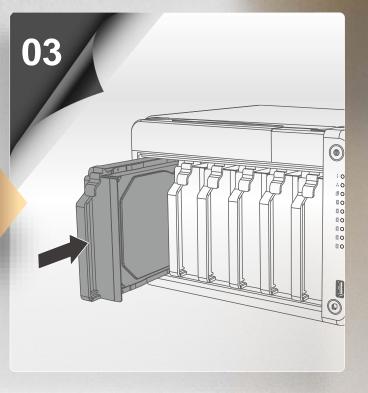
For more, please check QNAP compatibility list: https://www.qnap.com/go/compatibility/

Easy to install HDDs and SSDs

Install 3.5-inch drives without tools







Compared with others, TS - x64 with greatly improved performance

			ONAD C		
	J TS-264	J TS-464	TS-664	Other 4-bay NAS	
SKU	TS-264-8G	TS-464-8G	TS-664-8G	4-bay	
СРИ	Intel® Celeron® N5095 (or N5105); 4C/4T Burst up to 2.9 GHz			AMD Ryzen R1600 ; 2C/4T Burst up to 3.1 GHz	
Memory	8GB onboard (Non-expandable)			4GB DDR4 ECC (2 x DDR4 SODIMM slots ; max 32GB)	
Drive bay	2	4	6	4	
M.2 SSD slots	2 x M.2 2280 PCle Gen3 x1 slots			2 x M.2 2280 NVMe SSD	
LAN port	2 x 2.5GbE			2 x Gigabit (RJ-45)	
номі	1 x HDMI 2.0 (4K@60Hz)			-	
PCIe	1 x PCle Gen3 x2 slot (support various QNAP expansion cards)			1 x PCle Gen3 x2 slot (only support 1-port 10GbE NIC)	
USB	2 x USB 3.2 Gen2 Type-A + 2 x USB 2.0			2 x USB 3.2 Gen1 Type-A + 1 x eSATA	
10G SMB Sequential Throughput	TS-464: 2 x 10GbE SMB Sequential Throughput (1MB) Read: 1,647 MB/s, Write: 1,632 MB/s			1 x 10GbE SMB Sequential Throughput (64KB) Read: 1,179 MB/s ,Write: 772 MB/s	

Live Demo : Installing M.2 SSD : 2 x 10GbE SMB Sequential Throughput

TS-664



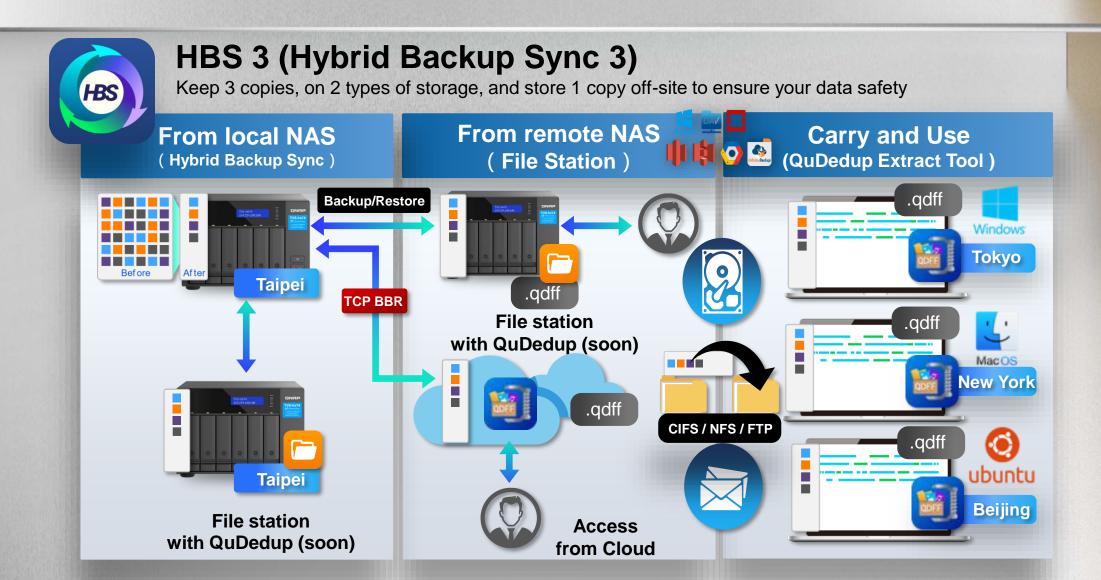
TS-264 TS-464

Equipped with the latest QTS 5 NAS operating system



- New Linux Kernel 5.10 improved security
- Smooth and reactive user interface
- Increased NVMe SSD cache performance
- Supports WireGuard VPN

Data Backup, Sync and Recovery Solution



Snapshots help you fight with Ransomware Threats

TS-x64 supports Snapshot, like taking a photo - within seconds the complete status of your NAS system and data is recorded

Mitigate the growing threat of ransomware

Step 1

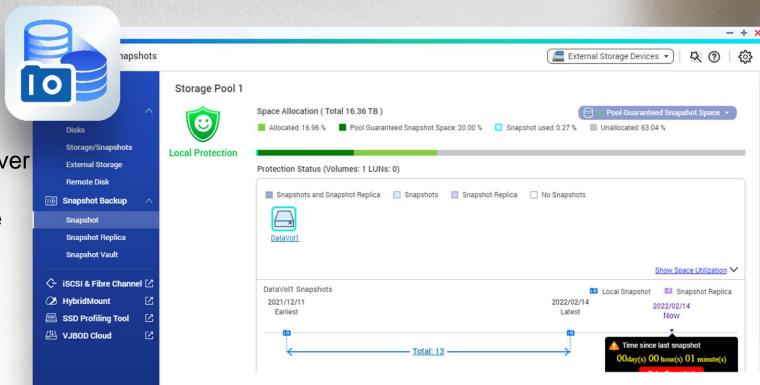
Regularly update, and use Malware Remover

Step 2

Routinely back up to your NAS, and create multi-version snapshots

Step 3

Back up snapshots to another QNAP NAS



Intelligent and automated file management



Qsirch 5

Google[™] like Search Tool for NAS

- Enables you to find files based on filename, content, and metadata.
- Can choose from a variety of search options to quickly find documents, images, videos, emails, and other NAS-based files.
- Available using a companion mobile app, browser extension, and Mac® Finder



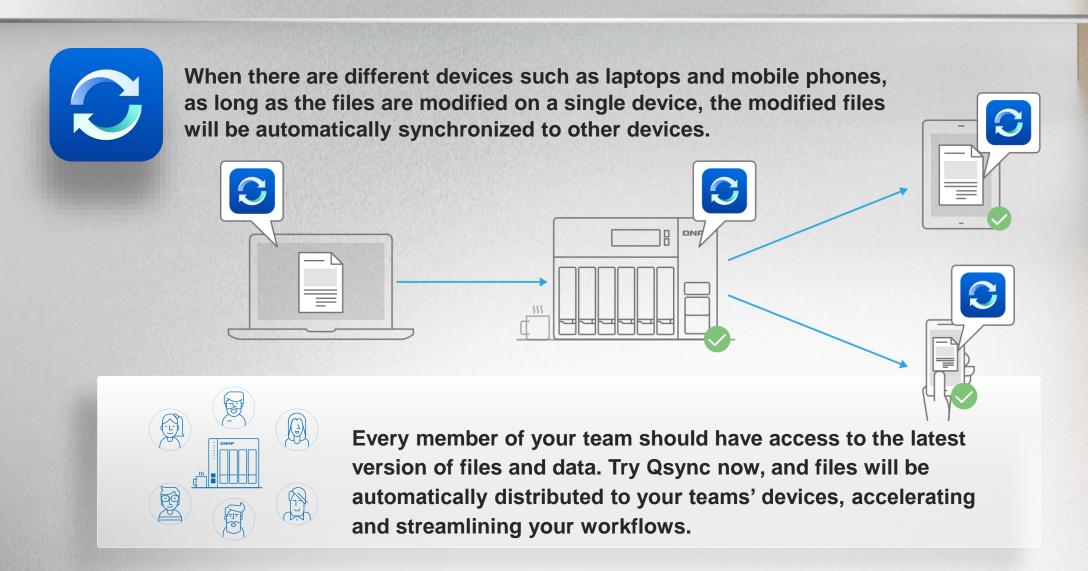
Qfiling 3

All you need to do is categorize your files, set a schedule!

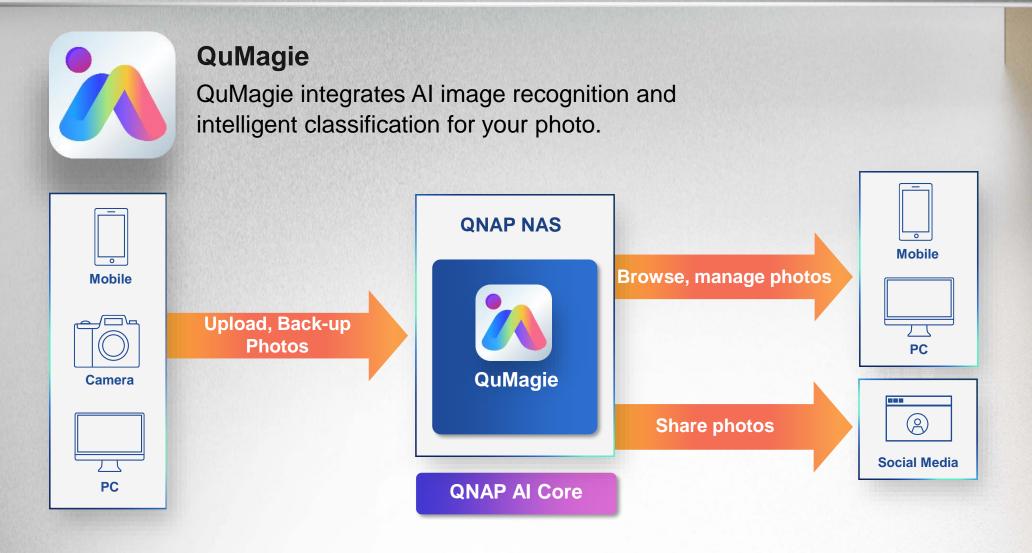


- <u>2 tasks</u>: Archive task · Recycle task
- 3 types of setting: one-time Scheduled Real-time
- 9 editing modules : Such as Face Blur \
 Video transcoding \cdot Encryption & Decryption...

Qsync, Cross-device file sync for individuals and teams



Faster image identification with integrated Intel[®] OpenVINO[™] Al engine



New Intel CPU - provides integrated GPU, support HDMI 4K output



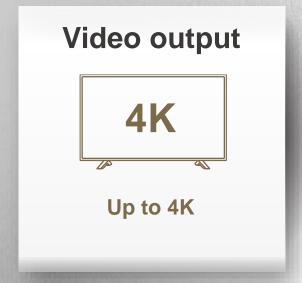
Intel® Celeron® N5095 processor

Quad-core, 2.0 GHz. Burst up to 2.9 GHz.

Intel® UHD Graphics

Support 4K @60Hz output and h.264/265

hardware transcoding







CAYIN MediaSign Player

*Enables your QNAP NAS to support mainstream image and video formats, including HEIF/ HEVC (H.265), and video transcoding.



*CAYIN Plus for H.265 transcoding

Full 4K UHD multimedia experiences



4K HDMI v2.0 60Hz output



Plex streaming & transcoding



Use Cinema28 for multi-room streaming

With optional RM-IR004 IR remote control or USB wireless keyboard and mouse

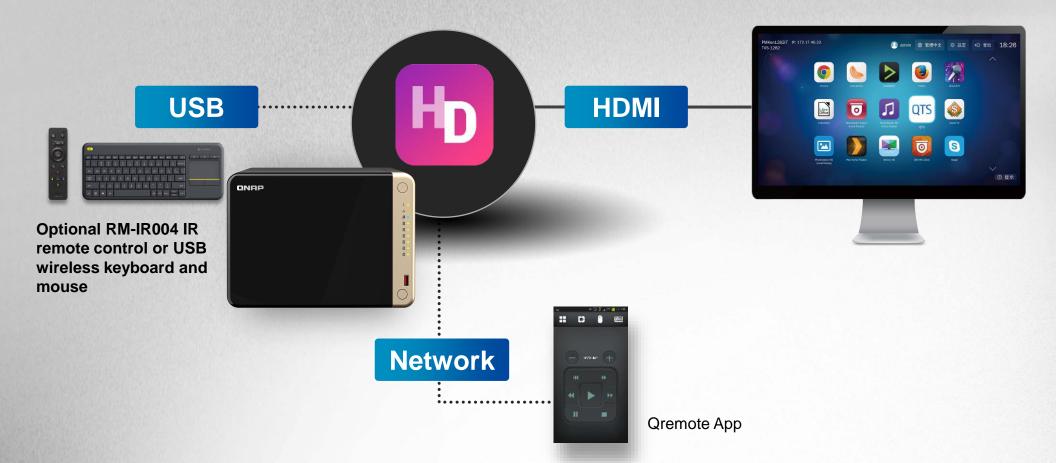






HybridDesk Station support multiple A/V applications

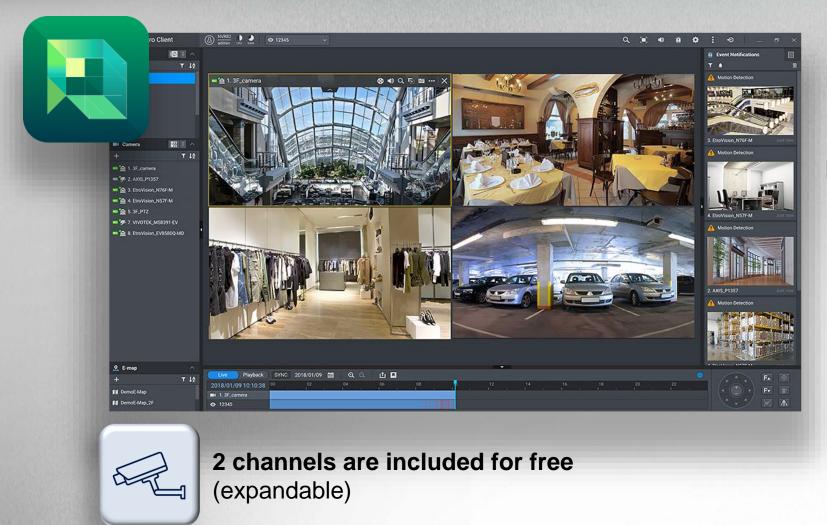
Connect an HDMI monitor to output a virtual machine desktop through Virtualization Station, or output an Ubuntu desktop with Ubuntu Linux Station.

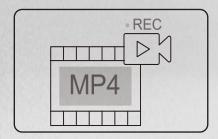


Linux Station Turns NAS into Ubuntu PC

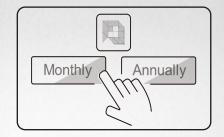


QVR Elite Smart Surveillance System

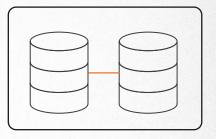




Record using the MP4 Format



Flexible Subscription



Expandable Capacity

QVR Elite with powerful IP surveillance camera management and support











MOBOTIX







Honeywell

Brickcom



ONVIF Profile support



Record into QVR Elite
by using the
RTSP/RTMP link with
no integration needed.
Multiple video sources
are supported - not just
IP cameras.

https://www.qnap.com/en/compatibility-qvr-pro

Shipped with 3-year standard warranty, optional up to 5-year coverage

Backed by a 3-year warranty at no additional cost.







TS-264 TS-464

TS-664

Extend hardware warranty up to 5 years

You can also purchase a warranty extension that extends your warranty coverage up to 5 years.

Learn more:

https://www.gnap.com/service/product-warranty/en/



